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(54) PREPARATION OF OLEFIN POLYMER

(57) Abstract:

PURPOSE: To prepare a highly stereoregular olefin polymer without removing the residual catalyst, by using a catalyst system comprising a titanium-containing solid component prepared from the ether complex of a specific metal compound, and an organoaluminum compound.

CONSTITUTION: An ether complex expressed by the formula (M is divalent metal; X is halogen; R is alkyl,

etc.; E is ether; n is 0.4-25)(e.g. the reaction product of a magnesium alkoxyhalide with tetrahydrofuran), is made to contact with a titanium tetrahalide (e.g. titanium tetrachloride, etc.). The product is further made to contact with an electron-donating compound, e.g. tetramethylethylenediamine, etc., to give a titanium-containing solid catalyst component (A). The desired olefin polymer is prepared by polymerizing propylenem etc. in the presence of a catalyst system comprising the catalyst component (A) and (B) preferably 2-50 mole on the basis of 1 mole of titanium, of an organoaluminum compound (e.g. triethylaluminum, etc.).

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